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Indoor Visible

Light

Communication

Without Line Of

Sight

Indoor Visible Light Communication Without Line Of Sight

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Indoor Visible Light Communication Without

Visible light communication (VLC) using indoor LED lighting generally assumes the existence of line of sight link in addition to multipath, delayed, lower power reflections. In this paper, we investigate

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the possibility to establish VLC links in shadowed areas, i.e., where the line of sight is blocked or unavailable. First, we study the system performance in terms of received power, SNR, BER ...

Indoor visible light communication without line of sight

...

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In this paper, we propose

a novel visible light

communication (VLC)

assisted Perspective-

fourLine algorithm (V-

P4L) for practical

indoor localization. The

basic idea of V-P4L is

to joint VLC and

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Visible light

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communication

systems supporting

wireless data access

and indoor positioning

applications Yang,

Helin 2020 Yang, H.

(2020). Visible light

communication

systems supporting

wireless data access

and indoor positioning

applications. Doctoral

thesis, Nanyang

Technological

University, Singapore.

Visible light

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**communication
systems supporting
wireless ...**

The visible light communication (VLC) refers to the communication technology which utilizes the visible light source as a signal transmitter, the air as the transmission medium, and the appropriate photodiode as a signal receiving component. Visible light communications

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(VLC) can provide

cable free

communication at very

high

Sight

A Visible Light

Communication

System for Indoor

Application

Request PDF | Visible

Light Communication

Based Indoor

Positioning Techniques

| Indoor positioning has

huge application

potential. It can

support a large number

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of location based
services in ...

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**Visible Light
Communication
Based Indoor
Positioning ...**

An Indoor Visible Light
Communication

Positioning System

Using a RF Carrier

Allocation Technique

Abstract: We propose a
new indoor positioning
system utilizing visible
light communication.

Intensity

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modulation/direct detection and carrier allocation methods are utilized in the proposed system.

An Indoor Visible Light Communication Positioning System

...

Visible light communication (VLC) has drawn much attention in the field of high-rate indoor wireless

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Communication

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communication. While most existing works focused on point-to-point VLC technologies, few studies have concerned multiuser VLC, where multiple optical access points (APs) transmit data to multiple user receivers. In such scenarios, inter-user interference constitutes the major factor limiting ...

OSA | Scheduling for indoor visible light

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communication ...

1. Introduction.

Recently, with the development of lighting industry, visible light communication (VLC) has drawn much attention , .Due to its features of unlicensed spectrum, immunity to electromagnetic interference, and high security, the VLC has become a promising complementary technology for radio

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frequency (RF) wireless
communications.

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**Performance
enhancement for
indoor visible light**

...

Beside these benefits,
LEDs have high speed
switching features
which makes them a
good candidate for
short range, indoor
wireless optical
communication front
end. This technology is
known as visible light

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communication (VLC)
which uses LEDs for
both illumination and
communication
purposes , , , , , .

Seamless rate adaptation for indoor visible light

...

Firstly, we designed
intelligent LED lamp
with visible light
communication (VLC)
function to dynamically
create the indoor GPS
tracking system. By

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Communication

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installing the proposed lamps that replace standard lighting in key locations in the nuclear power plant, the proposed system can strengthen the safety of mobile robot and help for efficient inspection in the large-scale field.

Indoor Positioning System based on Visible Light ...

VLC - visible light communication - can

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be used to set up an indoor positioning system including indoor navigation. VLC (Visible Light Communication) can transfer data by means of light. The light can be emitted by an LED or a fluorescent tube and has to be received and converted by a photo detector for example a smartphone camera.

VLC / Visible Light

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Communication -

Indoor Navigation

Lighting is present in most indoor areas.

Apart from

illumination, lighting infrastructure can be used for data

communication using Visible Light

Communication (VLC) technology. VLC

encodes the data into fast changes on the intensity of the LED light and, at the

receiver, these

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intensity fluctuations
are detected using a
Photodiode.

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**Visible light
communication for
indoor monitoring**

Towards indoor
localization using
visible light
communication for
consumer electronic
devices. In Proceedings
of the IEEE/RSJ
International
Conference on
Intelligent Robots and

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Systems. IEEE,
143--148. Google
Scholar; A. Jovicic.
2016. Qualcomm®
Lumicast™ : A high
accuracy indoor
positioning system
based on visible light
communication.

Indoor Positioning Based on Visible Light

Communication: A ...

Visible Light

Communication (VLC)

based on Light

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Emmiting Diodes (LEDs) is an attractive communication fabric for the IoT, as LEDs are readily available and can serve as transmitters as well as receivers. LED light bulbs, enhanced with photodiodes, provide an attractive path to extend device-to-device communication to room area networking.

EnLighting: An

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Indoor Visible Light Communication System ...

services. In these cases, the visible light (VL) communication method [1,2], which is regarded as a key technique in 6th generation (6G) communication [3-5], is naturally preferable to other wireless communication methods owing to its excellent security, high accuracy, safety

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(because of the use of a VL signal), and low installation costs.

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Secure Visible Light Communication Technique Based on ...

...

Keywords—wireless optical data transmission system, visible light communication I.

INTRODUCTION isible Light Communication (VLC) is a technology for receiving and

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sending data using white light, which is light in the visible spectrum. This technology is suitable to be used for transmitting data inside a building without

**The Indoor Use
Development for
Visible Light
Communication**

Abstract: Visible light communication (VLC) can provide short-

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range optical wireless
communication

together with
illumination using LED
lightings. Since VLC

channel is an open
wireless channel,
physical-layer security
is desirable in order to
hide secret information
from unauthorized
receivers, without
reliance on upper-layer
cryptographic
techniques.

A Physical-Layer

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Secure Coding Scheme for Indoor Visible ...

N2 - Visible Light
Communication (VLC)
is an emerging field in
Optical Wireless
Communication (OWC)
which utilizes the
superior modulation
bandwidth of Light
Emitting Diodes (LEDs)
to transmit data. In
modern day
communication
systems, the most
popular frequency

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band is Radio

Frequency (RF) mainly

due to little

interference and good

coverage.

**LED based indoor
visible light
communications:**

State of ...

The last 8 years Onno

worked in Philips

Lighting, now Signify,

on light for

communication,

started the indoor

position business using

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visible Light

Communication.

Currently Onno is working on LiFi

opportunities. Onno is

Dutch, married, holds a

MSc degree in

Electrical Engineering

from Delft University.

Indoor Navigation with Visible Light Communication

Asynchronous indoor
positioning system

based on visible light

communications Weizhi

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Zhang,* M. I. Sakib

Chowdhury, and

Mohsen Kavehrad

Department of

Electrical Engineering,

Pennsylvania State

University, University

Park, Pennsylvania

16802 Abstract. Indoor

positioning has

become an attractive

research topic within

the past two decades.

However, no

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[d41d8cd98f00b204e98](https://doi.org/10.1016/j.sbspro.2014.06.009)

[00998ecf8427e.](https://doi.org/10.1016/j.sbspro.2014.06.009)

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